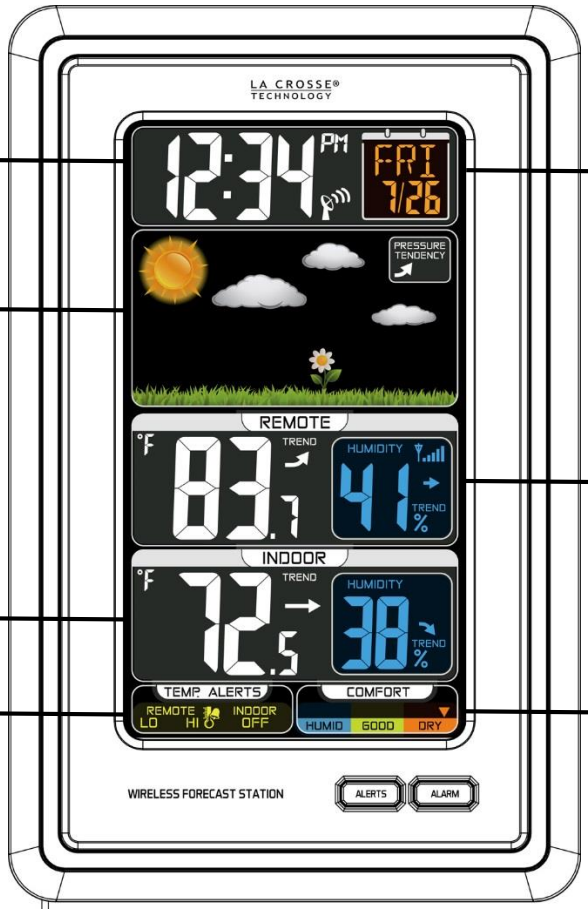
LA CROSSE®
TECHNOLOGY

Model: S88907
Instruction Manual
DC: 072314

WIRELESS COLOR WEATHER STATION

FRONT VIEW



Time

Calendar + Alarm

Color Animated Forecast + Tendency

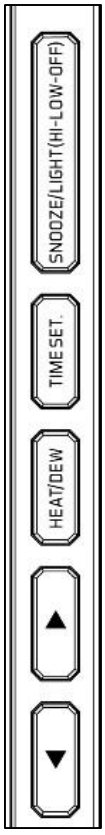
Remote Humidity & Temperature with Trend

Indoor Humidity & Temperature with Trend

IN/OUT Temperature Alerts

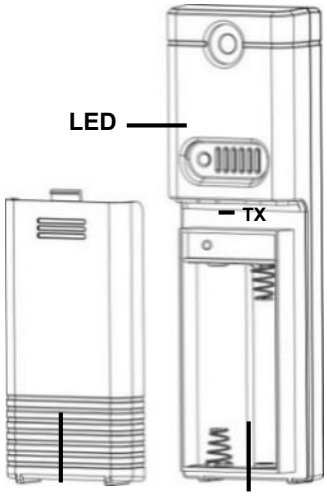
Indoor Comfort Indicator

SIDE BUTTONS



FRONT BUTTONS

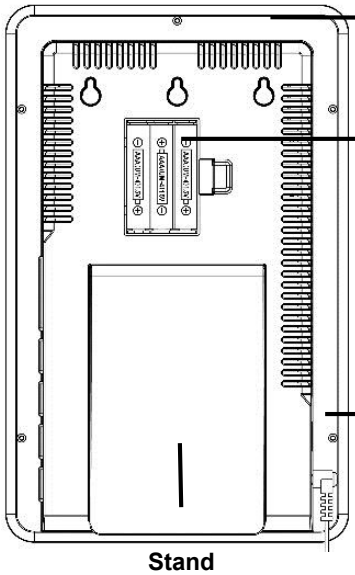
REMOTE SENSOR TX141TH-Bv2



Sensor Battery Cover

Sensor Battery Compartment 2 "AA"

BACK VIEW



Wall Hanging Holes

Battery Compartment 3 "AAA"

AC Power Jack DC 5.0V GPU280500150WD00

Stand

Quick Setup

Step 1: Insert the 5 volt AC cord (included) into the wall outlet then into the weather station.
Step 2: Insert the 3 *new* AAA Alkaline batteries (not included) into the weather station. Observe the correct polarity.
Step 3: Insert the 2 *new* AA batteries (not included) into the TX141TH-Bv2 remote sensor. Observe the correct polarity. The red LED will flash during transmission.

Restart: If the remote temperature is not displayed after 3 minutes, unplug the AC adapter and remove batteries from the weather station & sensor and press any button 20 times. After 15 minutes return to **Step 1** above.

Table of Contents

Introduction

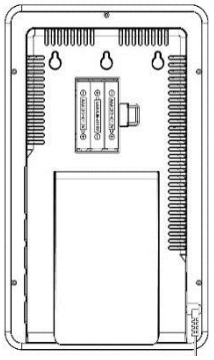
La Crosse Technology® introduces a Wireless Color Weather Station with precise, real-time backyard weather. Animated color forecasts with trends react to changing barometric pressure. Indoor comfort indicator can help achieve a comfortable and healthy living environment and may even save you heating costs. Monitor in/out temperature trends with high and low alert settings. Measure in/out temperature and humidity with daily min/max records -- all on one easy-to-read color display with adjustable brightness.

Features

- 12/24 hr. atomic time (manual setting)
- Signal strength icon for sensor transmission
- Indoor and Remote humidity (%RH) with trend indicator
- Indoor and Remote temperature (°F / °C) with trend
- Animated forecast icons
- Forecast tendency indicator
- Customize Indoor and Remote temp. alerts (low / high) for weather station and remote sensor
- Perpetual calendar (day / month / date / year)
- Back light control (high / low / off)
- Time alarm
- Heat index and dew point
- Min. / max. temperature and humidity
- Indoor comfort indicator
- Station and sensor low battery icon
- Atomic reception indicator
- Snooze / alarm icon

Detailed Setup: Weather Station and Remote Sensor

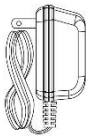
STEP 1:



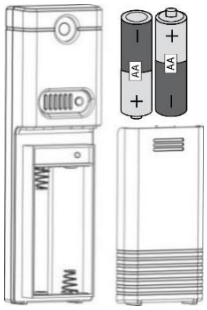
- Insert the 5-volt A/C power adapter into the designated area on the back of the weather station.
- Plug the A/C power adapter into a wall outlet for continuous backlight (ON/OFF), and dimmer feature.

STEP 2: (optional battery operation)

- Slide tab to down and pull out to remove the battery cover.
- Insert three new AAA Alkaline batteries into the back of the weather station. Observe the correct polarity (see marking inside the battery compartment).
- The weather station will light up and show indoor temperature, humidity and time.
- (Backlight will illuminate for 8 seconds when using only battery power with a press/release of the SNOOZE/LIGHT button)



STEP 3:

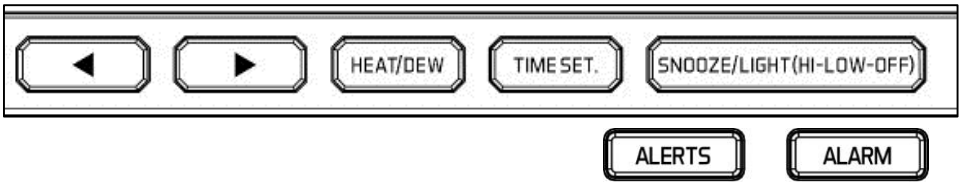


- Ensure that the transmitter is within 10 feet of the weather station.
- Remove battery cover from transmitter. Slide the battery cover down and lift off the front.
- Insert two new AA batteries into the TX141TH-Bv2 transmitter. Observe the correct polarity.
- Within three minutes, the Weather station will show readings in the remote temperature area on the LCD.

Note: Use Alkaline batteries (or Lithium for temperatures below -20°F/-28.8°C).

Button Functions

The weather station has 5 buttons up the right side and 2 buttons on the front.



▼ (Down) Button

Setting-
- Press to decrease values during setting.
- Hold 2 seconds to quickly adjust values.

Default Time Display-
- Press to display minimum temperature/humidity.
- Hold 2 seconds to clear minimum temperature/humidity memory.

Temperature Alert-
- Press to disarm alerts

TIME SET Button

Default Time Display-
- Press to start or stop a WWVB time signal search
- Hold for 3 seconds to set time/calendar, etc.

SNOOZE/LIGHT (HI-LOW-OFF) Button

Default Time Display-
- Press to change the LCD backlight brightness. HI/LOW/OFF
- Press to activate backlight for 10 seconds.(without adaptor)

Time Alarm-
- Press to activate the snooze function when alarming

HEAT/DEW/SENSOR SEARCH button

Default Time Display-
- Press once to view Heat Index.
- Press twice to view Dew Point.
- Hold to search for Remote sensor.

▲ (UP) Button

Setting-
- Press to increase the values during setting.
- Hold 2 seconds to quickly adjust values.

Default Time Display-
- Press to view maximum temperature/humidity.
- Hold 2 seconds to clear maximum temperature/humidity memory.

Temperature Alert-
- Press to arm alerts

ALERT Button

Default Time Display-
- Press to toggle between Remote High Alert, Remote Low Alert, Indoor High Alert and Indoor Low Alert.
- Hold to enter Alert setting

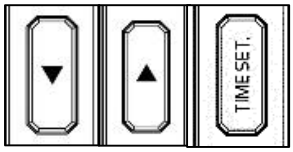
ALARM Button

Default Time Display-
- Press once to show alarm time
- Hold for 2 seconds enter alarm setting mode

Alarm Mode-
- Press to activate or deactivate time alarm.

Set Time, Date, Temperature Unit

Hold the **TIME SET** button to enter time set mode.



1. Press the ▼ or ▲ buttons to adjust the values.
2. Hold the ▼ or ▲ buttons to quickly adjust the values.
3. Press the **TIME SET** button to confirm adjustments and move to the next item.

Time Set Order:
1. WWVB time signal (On/Off)
2. Time Zone - 7 time zones
3. DST (Daylight Saving Time On/Off)
4. 12/24 hour time format
5. Hour
6. Minutes
7. Year
8. Month
9. Date
10. Fahrenheit/Celsius

Press the **TIME SET** button to exit, or wait 20 seconds without pressing buttons to return to the normal time display.

WWVB Reception ON/OFF

The WWVB atomic time reception defaults to ON.
To turn the WWVB reception OFF:

1. Hold the **TIME SET** button for 5 seconds.
2. **WWVB** and **ON** will flash above the date.
3. Press and release the ▼ or ▲ buttons to turn this OFF if you do not want to receive the WWVB time signal.
4. Confirm with the **TIME SET** button and move to the Time Zone.

Time Zone

This station offers seven time zones listed in letter format (default is EST):

- AST Atlantic Time
- EST Eastern Time
- CST Central Time
- MST Mountain Time
- PST Pacific Time
- AKT Alaskan Time
- HAT Hawaiian Time

TIME ZONE	
AST	Atlantic
EST	Eastern
CST	Central
MST	Mountain
PST	Pacific
AKT	Alaska
HAT	Hawaiian

1. **EST** will flash above the date.
2. Press and release the ▼ or ▲ buttons to select a different Time Zone.
3. Confirm with the **TIME SET** button and move to Daylight Saving Indicator.

Daylight Saving Time Indicator

DST will default to the ON position as most of the country observes the DST change. If you live in an area does not observe the DST change, switch this to the OFF position.

1. **DST** and **ON** will flash above the date.
2. Press and release the ▼ or ▲ buttons to turn DST to OFF.
3. Confirm with the **TIME SET** button and move to 12/24 hour time format.

12-hour or 24-hour Time Format

The Time may be displayed in 12-hour or 24-hour format. Default is 12-hour time.
Note: When in 12-hour format AM or PM will show in front of the hour.

1. **12H** will flash in the time display.
2. Press and release the ▼ or ▲ buttons to select 24-hour time.
3. Confirm with the **TIME SET** button and move to Set Time.

Set Time

To set the time manually:

1. The **hour** digit will flash.
2. Press and release the ▼ or ▲ buttons to select the hour.
3. Press and release the **TIME SET** button to set the minutes.
4. The **minute's** digit will flash.
5. Press and release the ▼ or ▲ buttons to select the minutes.
6. Confirm with the **TIME SET** button and move to Set Calendar.

Set Calendar

The date default of the weather station is 1. 1. 2014.

To set the calendar:

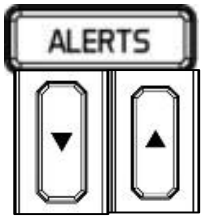
1. The **year** will flash.
2. Press and release the ▼ or ▲ buttons to set the year (between years 2000-2039).
3. Press the **TIME SET** button again to confirm and to enter the month setting.
4. The **month** will flash.
5. Press and release the ▼ or ▲ buttons to set the month.
6. Press the **TIME SET** button again to confirm and enter the date setting.
7. The **date** will flash.
8. Press and release the ▼ or ▲ buttons to set the date.
9. Confirm all calendar settings with the **TIME SET** button to confirm and move to select Fahrenheit/Celsius.

Note: The day of the week will set automatically once the year, month and date are set.

Fahrenheit/Celsius

1. **°F** will flash.
2. Press and release the ▼ or ▲ buttons to select Fahrenheit or Celsius.
3. Confirm with the **TIME SET** button and exit the program menu.

Temperature Alerts



The weather station offers programmable high and low temperature alerts.

Hold the **ALERT** button for five seconds, until the weather station beeps, to select and set temperature alert values. Each alert value will flash separately during alert set mode.

- **REMOTE HIGH** alert will flash. Press the ▼ or ▲ buttons to set the alert value, and press the ALERT button to confirm. Then press the **ALERT** button again switch to REMOTE LOW setting.
- **REMOTE LOW** alert will flash. Press the ▼ or ▲ buttons to set the alert value, and press the ALERT button to confirm. Then press the **ALERT** button again switch to INDOOR HIGH setting.
- **INDOOR HIGH** alert will flash. Press the ▼ or ▲ buttons to set the alert value, and press the ALERT button to confirm. Then press the **ALERT** button again switch to INDOOR LOW setting.
- **INDOOR LOW** alert will flash. Press the ▼ or ▲ buttons to choose the value, and press the **ALERT** button to confirm and exit.

Note: After selecting temperature alert values use the next step to turn individual alerts ON or OFF.

Arm/Disarm Temperature Alerts

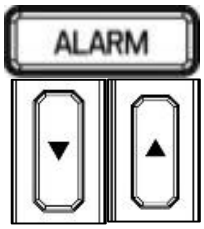
- In normal time mode, press and release the **ALERT** button to toggle between:
  - Remote HI
  - Remote Lo
  - Indoor HI
  - Indoor LO

- Press the ▲ button to **arm** the selected alert.
- The alert bell appears when each alarm is activated.
- Press the ▼ button to **disarm** the selected alert.
- OFF will show in the Alerts area if no alert is active.

Temperature Alert Sounds

- When temperature alert sounds, the corresponding alert bell will flash.
- The alert beeps once every minute, until the temperature is out of alert range.
- Press any button to stop alert. The alert bell will still show.
- **Disarm Alert**: In normal mode, hold and release the **ALERT** button to select the alert to disarm. With HI or LO alert selected, press the ▼ button disarm alert.

Time Alarm Set



Hold the **ALARM** button for 5 seconds to enter the alarm time set mode.
1. The alarm hour digit will flash in the time display.
2. Press and release the ▼ or ▲ buttons to select the hour.
3. Press and release the **ALARM** button to set the minutes. The minute digits will flash.
4. Press and release the ▼ or ▲ buttons to select the minutes.
5. Confirm with the **ALARM** button and exit.
6. The bell icon will show indicating the alarm is active.
7. The bell icon will flash when the alarm is sounding.

Deactivate Alarm

1. Press and release the **ALARM** button once to show alarm time.
2. Press and release the **ALARM** button to deactivate the Alarm.
3. The bell icon will disappear indicating the alarm is no longer active.

Snooze

1. When the alarm sounds, press the **SNOOZE/LIGHT** button to trigger snooze alarm for 10 minutes. The snooze icon **Zz** will flash by the weekday when the snooze feature is active.
2. To stop alarm for one day, press ALARM button, while in snooze mode. The bell icon will remain solid.
   Note: When the alarm sounds, it continues for 2 minutes then shuts off completely.

Adjust Backlight (HI-LOW-OFF)

When using A/C power:
- Press the **HI/LOW/OFF** button to adjust the backlight:

When using Battery power only:
- Press the **HI/LOW/OFF** button for 10 second backlight.

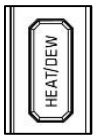
Indoor Comfort Indicator

The indoor comfort display is based off of the indoor humidity read by the weather station. Air that is too dry or too wet can cause discomfort. The weather station will display one of five indicators:

Status	Indicator	Color
Too Humid	First Arrow	Blue
Humid	Second Arrow	Blue
Good	Third Arrow	Green
Dry	Fourth Arrow	Orange
Too Dry	Fifth Arrow	Orange

Heat Index/Dew Point

The **HEAT/DEW** button toggles between Heat Index, Dew Point, and Mold Risk. Each feature will display for 10 seconds then return to default display if the button is not pressed again.



Heat Index

Heat Index combines the effects of heat and humidity. It is the apparent temperature of how hot it feels to a human being. As humidity increases, the body is unable to cool effectively; therefore, the temperature will feel warmer.

View Heat Index: From a normal display, press the **HEAT/DEW** button **once** and Heat Index will show in place of the remote temperature.

Dew Point Temperature

Dew Point Temperature is the saturation point of the air, or the temperature to which the air has to cool in order to create condensation. The higher the dew points, the higher the moisture content of the air at a given temperature.

View Dew Point Temperature: From a normal display, press the **HEAT/DEW** button **twice** and Dew Point will show place of the remote temperature.
Note: Dew Point is lower than the actual temperature.

Temperature/Humidity Trend indicators

The indoor and remote temperature/humidity trend indicators will update every 30 minutes or less. These trends represent temperature changes over the past three hours.

Example: At 1:00pm, the arrow indicates the change in temperature since 10:00am. At 1:30pm, the arrow will indicate the temperature change since 10:30am.

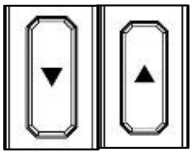
• Temperature has **risen** in the past 3 hours. • Humidity has **risen** in the past 3 hours.	
• Temperature has **not changed** in the past 3 hours. • Humidity has **not changed** in the past 3 hours.	
• Temperature has **fallen** in the past 3 hours. • Humidity has **fallen** in the past 3 hours.	

Search for Remote Sensor

- Hold the **HEAT/DEW** button to search for the remote sensor.
- The strength signal icon will animate until the sensor signal is received or for 3 minutes if no signal available.

MIN/MAX (View, Reset)

The Weather station provides the daily minimum and maximum temperatures each day starting at midnight (12:00 AM). The Weather station automatically resets the min/max temperatures at midnight (12:00 AM).



View MIN data: Press and release the ▼ button to view the minimum Indoor and Remote Temperatures.
Reset MIN data: Hold the ▼ button for five seconds and the Indoor and Remote Minimum Temperatures will be reset.

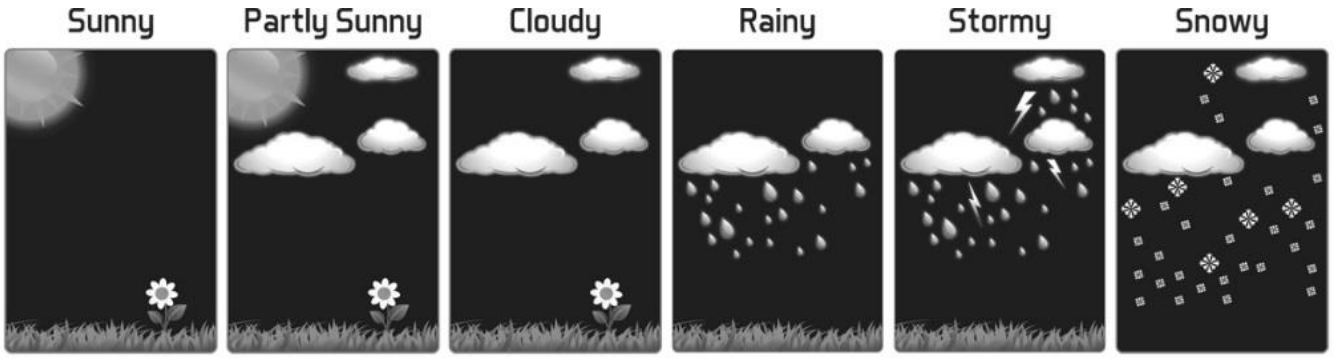
View MAX data: Press and release the ▲button to view the maximum Indoor and Remote Temperatures.
Reset MAX data: Hold the ▲ button for five seconds and the Indoor and all Remote Maximum Temperatures will be reset.

Note: The temperature area shows dashes briefly then return to current temperatures.

Animated Color Forecast Icons

Animated forecast icons use changing atmospheric pressure to predict weather conditions for the next 12-hours with 70-75% accuracy.

INTELLIGENT WEATHER FORECAST
This station learns; please allow 3 to 4 weeks for barometric calibration. This will ensure an accurate personal forecast for your location.



- The Weather station samples the barometric pressure every twelve minutes.
- These samples are averaged hourly and daily then stored in nonvolatile memory.
- The three hour pressure icon change is based off of the last four average hourly readings.

IMPORTANT: As the Weather station builds memory, it will compare the current average pressure to the past forty day average pressure for increased accuracy. The longer the Weather station operates in one location, the more accurate the forecast icons will be.

Pressure Tendency Indicators (Up, Right, Down Arrows)

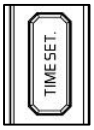
Working with the forecast icons, the tendency indicators let you know if the weather is improving, steady or worsening.

TENDENCY **Rising Pressure** Weather is Expected to Improve	TENDENCY **Steady Pressure** Weather is Expected to Stay the Same	TENDENCY **Falling Pressure** Weather is Expected to Worsen

Manual WWVB Time Signal Search

- Press the **TIME SET** button to start or stop a manual signal search. The WWVB Icon flashes during signal search.

For information about WWVB visit:
www.nist.gov/pml/div688/grp40/wwvb.cfm



Remote Sensor Positioning and Use

- Mount the remote sensor on a north-facing wall or in any well shaded area. Under an eave or deck rail is preferred.
- The maximum wireless transmission range to the weather station is over 300 feet (91 meters) in open air, not including walls or floors.
- Be sure the remote sensor is mounted vertically.

Low Battery icon

Low battery icon for weather station or remote sensor.

- If the icon is displayed in the Remote Temperature section, replace batteries in the remote sensor.
- If the icon is displayed in the Indoor Temperature section, replace batteries in the forecast station.


Low Battery Icon

Care and Maintenance

- **Do not mix old and new batteries**
- **Do not mix Alkaline, Standard, Lithium or Rechargeable Batteries**
- Always purchase the correct size and grade of battery most suitable for the intended use.
- Replace all batteries of a set at the same time.
- Clean the battery contacts and also those of the device prior to battery installation.
- Ensure the batteries are installed correctly with regard to polarity (+and -).
- Remove batteries from equipment with is not to be used for an extended period.
- Remove expired batteries promptly.
- Do not expose to extreme temperature, vibration or shock.
- Clean with a soft damp cloth. Do not use solvents or scouring agents.

- The product is not a toy. Keep it out of reach of children.
- The product is not to be used for medical purpose or for public information. It is intended for home use only.
- The specs of this product may change without prior notice.
- Improper use or unauthorized opening of housing voids warranty.
- If the product is not working properly, change the batteries and/or check the AC cord connection.

Specifications

Indoor	
Temperature Range:	+32°F to +122°F (0°C to 50°C)
Humidity Range:	1%-99% (RH)
Outdoor	
Temperature Range:	-40°F to 140°F (-40°C to 60°C)
Alkaline Batteries:	-20°F to 140°F (-29°C to 60°C)
Lithium Batteries:	-40°F to -20°F (-40°C to -29°C)
NOTE:	Temperatures below - 20°F (-29°C) require Lithium batteries in the remote sensor
Humidity Range:	1%-99% (RH)
Distance:	Over 300 ft. (91 meters) RF 433MHz (open air)
Power	
Weather Station	
Primary AC Power: AC Adapter No: GPU280500150WD00	5-volt AC power adapter (included)
Optional/Battery Backup	Optional 3-AAA, IEC, LR3 batteries (not included)
TX141TH-Bv2 Remote Sensor:	2-AA, IEC, LR6 batteries (not included)
Battery Life	
Weather Station Battery Backup:	Battery life is over 12 months when using the AC adapter for primary power
TX141TH-Bv2 Remote Sensor:	Battery life is over 24 months when using reputable battery brands for both Alkaline and Lithium batteries
Dimensions	
Weather Station:	6.1″ W x 9.6″ H x 1.06″ D (155.9 x 243.8 x 26.9 mm)
TX141TH-Bv2 Remote Sensor:	1.74"L x 0.81"W x 5.1"H (44.2 x 20.5 x 130mm)

Warranty Information

La Crosse Technology, Ltd. provides a 1-year limited time warranty (from date of purchase) on this product relating to manufacturing defects in materials & workmanship.

View full warranty details online at:
www.lacrossetechnology.com/warranty_info.pdf

For warranty work, technical support or other information contact:
La Crosse Technology, Ltd
2830 South 26th St.
La Crosse, WI 54601

Contact Support: 1-855-605-6888

Product Registration:
www.lacrossetechnology.com/support/register

Online Product Support:
www.lacrossetechnology.com/support

Protected under U.S. Patents:
5,978,738
6,076,044
RE43903

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device must not be co-located or operating in conjunction with any other antenna or transmitter.
Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Caution!
The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

This booklet may contain errors or misprints. The information it contains is regularly checked and corrections are included in subsequent editions. We disclaim any responsibility for any technical error or printing error, or their consequences.